

HTML Notes: Formatting, Comments, Links, Images, Favicons

1. Text Formatting in HTML

HTML provides various tags to style and structure text content.

Common Formatting Tags:

Tag	Description	Example
	Bold text (no semantic importance)	Bold Text
	Bold text (semantic importance)	Important
<i>	Italic text (no semantic importance)	<i>Italic Text</i>
	Italic text (semantic emphasis)	Emphasized
<u>	Underlined text	<u>Underlined</u>
<mark>	Highlighted text	<mark>Highlight</mark>
<small>	Smaller text	<small>Small Text</small>
	Deleted text (strikethrough)	Deleted
<ins>	Inserted text (underline)	<ins>Inserted</ins>
<sub>	Subscript text	H₂O
<sup>	Superscript text	E=mc²
<code>	Inline code	<code>console.log()</code>
<pre>	Preformatted text (preserves spaces)	<pre>Hello World</pre>

Example:

```
<p>This is <b>bold</b>, <i>italic</i>, and <mark>highlighted</mark> text.</p>
<p>Chemical formula: H<sub>2</sub>O</p>
<p>Einstein's equation: E=mc<sup>2</sup></p>
```

2. HTML Comments

Comments are used to add notes in HTML code (not visible in the browser).

Syntax:

```
<!-- This is a comment -->
<p>This is visible text.</p>
<!--
  Multi-line
  comment
-->
```

Use Cases:

- Explaining code
- Temporarily disabling code
- Leaving notes for developers

Example:

```
<!-- Header Section Starts -->
<header>
  <h1>Website Title</h1>
</header>
<!-- Header Section Ends -->
```

3. Links in HTML

Links are created using the `<a>` (anchor) tag.

Attributes:

Attribute	Description
href	URL or file path
target	Where to open (<code>_blank</code> for new tab)
title	Tooltip on hover
rel	Link relationship (e.g., <code>nofollow</code>)

Examples:

```
<!-- External Link -->
<a href="https://google.com" target="_blank">Visit Google</a>

<!-- Internal Link (Same Website) -->
<a href="about.html">About Us</a>

<!-- Email Link -->
<a href="mailto:contact@example.com">Email Us</a>

<!-- Phone Link -->
<a href="tel:+1234567890">Call Us</a>

<!-- Bookmark Link (Jump to a section) -->
<a href="#section2">Go to Section 2</a>
<h2 id="section2">Section 2</h2>
```

4. Images in HTML

Images are embedded using the `` tag.

Attributes:

Attribute	Description
src	Image path (URL/local)
alt	Alternative text (accessibility)
width	Width in pixels or %
height	Height in pixels or %
title	Tooltip on hover

Example:

```

```

Image Formats:

- **JPEG** – Best for photos
- **PNG** – Best for transparency
- **SVG** – Scalable vector graphics
- **WebP** – Modern, optimized format

5. Favicons in HTML

A favicon is a small icon displayed in the browser tab.

How to Add a Favicon:

1. Create a **16x16** or **32x32** .ico or .png file.
2. Place it in the website's root folder.
3. Add this in the `<head>` section:

```
<link rel="icon" href="favicon.ico" type="image/x-icon">
<!-- For modern browsers (PNG/SVG) -->
<link rel="icon" href="favicon.png" type="image/png">
```

Alternative Methods:

- **Emoji Favicon** (for quick testing):

```
<link rel="icon" href="data:image/svg+xml,<svg xmlns='http://www.w3.org/2000/svg' >
```



- **Apple Touch Icon** (for iOS devices):

```
<link rel="apple-touch-icon" href="apple-touch-icon.png">
```

Practical Questions

1. Formatting & Comments

- Create an HTML page with:
 - A heading (`<h1>`)
 - A paragraph with **bold**, *italic*, and ~~strikethrough~~ text.
 - Add a comment explaining the purpose of the page.

2. Links

- Build a navigation menu with 3 links:
 - Home (links to `index.html`)
 - About (links to `about.html`)
 - Contact (links to `#contact` section)

3. Images

- Insert an image (`photo.jpg`) with:
 - Width = 300px
 - Alt text = "Sample Photo"
 - A tooltip saying "Click to enlarge"

4. Favicon

- Add a favicon (`favicon.ico`) to an HTML page.
- Test it in the browser tab.

5. Combined Exercise

- Create a **Personal Portfolio** page with:
 - A header with your name (`<h1>`)
 - A navigation bar (Home, Projects, Contact)
 - A profile picture (``)
 - A footer with a copyright notice
 - A favicon